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AMIN, & TUROCY LLP.

FAX NO. 4087493718

16 P. 02 7-15-03

09/891,885

F0279

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application

Applicant(s): Ramsbey, et al.

Art Unit:

2811

Serial No.: 09/891,885

Examiner:

Thomas J. Magee

Filed:

June 26, 2001

Title:

ESD IMPLANT FOLLOWING SPACER DEPOSITION

DECLARATION UNDER 37 C.F.R. §1.131

Mail Stop Non-Fee Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

- I, Mark T. Ramsbey, declare and say as follows:
- I am the inventor of the claims of the above-identified patent application. (1) This Declaration is submitted to establish conception of the invention described and claimed in the above-captioned application in the United States at a date prior to May

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F0279

- 29, 2001, which is the date of patent of Fliesler et al. (U.S. Patent 6,238,975 B1) and to establish diligence from at least just prior to May 29, 2001 until constructive reduction to practice, June 26, 2001.
- (2) To establish conception of the invention claimed in the above-identified application prior to May 29, 2001, copies of the relevant portions of an Invention Disclosure describing the invention are enclosed with this Declaration as Exhibit A. Conception and the written description of the invention contained in the Exhibit A were completed prior to May 29, 2001 in this country. Certain information, such as the actual dates and proprietary information, contained on the documents has been removed from the copies.
- (3) Exhibit A, an Invention Disclosure, describes with words and drawings the invention captured by the claims. In particular, the Invention Disclosure indicates facilitating ESD implant following spacer deposition to avoid short channel effect and reduce costs by alleviating extra masking steps. The drawings show the resultant system structure.
- (4) In view of Exhibit A, it can be seen that the invention claimed in the present application was indeed conceived prior to May 29, 2001.
- (5) Before April 12, 2001 and after the date of the Invention Disclosure (before May 29, 2001), discussions concerning the Invention Disclosure with the drafting attorney took place, as needed, for the purpose of ensuring the drafting attorney fully understood the contents of the invention Disclosure.
- (6) On or about April 12, 2001, I received a draft version of a patent application for the instant invention from the drafting attorney.

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- (7) On or about May 11, 2001, a finalized version of the patent application with formals papers was received.
- (8) Executed formal papers and the finalized patent application were returned to the drafting attorney on June 22, 2001.
- I, Mark T. Ramsbey, hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued therein.

Mark T. Ramsbey

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Process

EXHIBIT A



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AMD INVENTION DISCLOSUR			
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ist 2 to 5 key words useful to search by to	and patents or art related	to this invention:	
ESD, IMPLANT			
Working title of invention: ESD Impa	T AFTER LUOS	PALER	
INVENTOR/SESSION PARTICIPANT	ADDRESS INFORMATIO	ON IS ON THE NEXT.	PAGE (1A)
Inventor's signature: Math Rund	ter,	da1	te :
Inventor's printed full name: MARK R	AMSBEY	Citizenship:	
Employee #: Extension: 1	Mail stop: Home tel	ephone:()	
Division: Directorate: Dept	#: Dept : N	lanager:	
Kesidence address:			
Post Office address:			
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MICHAEL FLIELER, MARE RAN Co-Inventor's signature: Co-Inventor's printed full name: Employee #: Extension: I Division: Directorate: Dept		Citizenship:	
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Employee #: Extension: 1	Mail stop: Home tele	ephone:()	
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list on additional sheet if there are more co-in-	ventors and list total numbe	er of inventors here:	
Name(s) of attorney(s) preferred by inventor(s)	to prepare patent applicati	on, if known:	
		, -=	
LAW FIRM: AMIN, ESCHWEILER & TU	ROCY, L.L.P.		
ATTORNEYS: Himanshu Amin, Tom Eschweiler,	Greg Turocy, and Don Bortni	ck	
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AMD INVENTION I	<i>DISCLOSURE</i>	TLD		Rec'd date	
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Brief description and/or ske	tch of invention (ple	ease allach	copies of AMI	D patent notebook pages, rep	ioris or
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Patent notebook #	Page numbers			_ Number of drawings	
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罗IN PER1PH.

TRADITIONALLY THERE IS AN ADILITIONAL IMPLANT WITH ESD implest THE ELECTROSTATIC DISCHARGE PROTECTION DEVICES. THERE IS A MAJA WHICH PROTECTS THE CTHER DEVICES FROM SHORT CHANNEL PERIPHERY EFFECT.

clof ESO MYSK EDD MPANT 1 LPO MAUK TIED IMPLANT PLUD MAJK PLAD IMPLANT

1. FORM WOLATION (FIFUD OX, TRENCH, FIT.)

2. VT IMPUANT SET THRESHOLD VOLTAGE

3. GATE STOF

GA TE POLY DEPOSITION, OPTIONAL WST, POLYCAP, GATEARC

Ya- MILL & ETCH GATEL WIKER ESD IMPIANT - BO COUP BE A ORP LOD AND

PERPHENY DEST OF 7 CHIP MAJESO

LOWERS THEET RESITIONS F WILLEN BIPOLAN EFFECT WILLIAM GREAMS

LOU ED LON TEJO N- TTPE EXAMPLE GATE ESD implant is hearly implant that causes Shortchan, effect Cturns onto easy)

SPACER FORMATION - CXIDE, NITRIDE OXIDE+ PITNUE, ETC.

DEPOSIT SPACER

NOTAKE ETCHBACK

(S/O IMPUNT) IMPLANT PERIPHERY SOURCE DAYN HEHLY AS one solin is GATE lenathen Gate. धहनणस favored. 600000

> 8-THERMAL (YUE TO ALTINATE SOME / DARW INPUTUT

PROCKEM - SPEED SHORTER CHANGE DEVICES HAVE Received from < 216 696 8731 > at 7/10/03 7:39:52 AM [Eastern Daylight Time] . No which a comment of the first of the Prince

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ELD MPONT

SCIUTION -

DONST OF ESO MPLANT UNTIL AFTER SPALER ETH

COPE & SOME PERIAL Devices

MAJE EJO MPLANT ALGEFORE SO IT ONLY GOES

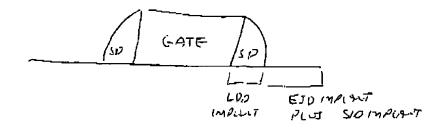
INTO ESO DEVICES

ADVANTAGE DOAN USE HEAVIER DOSE WITHOUT

AS MUCH SHORT CHANNEL EFFECT ON FLOOR VICES.

(a) parrower gate permitted

FLOW SAME AS REFORE EXCEPT END MASK AND IMPORT NOT IN STEP 5 BUT INSTEP 7



B. NO MASK FOR ESD MPLANT ALL DEVICES GET ESO IMPLANT BUTSWEE IT IS DONE AFTER SPACER IT WILL NOT CAUSE SHORT CHANNEL EFFECT AND WILL NOT TO HURT P-CHANNEL DEVICES (P+ SOURCE LORGIN IMPLANT WILL COUNTER OUPE IT) Adu- eliminate mask step